Authentication of Remote Appliance Messages Using an

Embedded Cryptographic Device

ABSTRACT

A method for authenticating appliance messages sent

5 between an appliance and an appliance communication center

over an appliance communications network includes

maintaining a shared message counter at both the appliance

communication center. A shared message counter at both the

appliance communication center and the remotely located

10 appliance. An authentication algorithm is applied to the

appliance message and the shared message counter to

generate an authentication word. The appliance message is

then transmitted to the appliance or the communication

center along with the authentication word. Upon receiving

15 the appliance message, the appliance or the communication

center will apply an authentication algorithm to the

appliance message and the shared counter to generate an

authentication word. The generated authentication word may

be compared to the word received with the appliance message

20 to determine authenticity of the message.